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3. The Research Section is headed by Dr. Hold. It employs graduates of the industrial high schools in the machine sections and ten student chemists. This laboratory tests all materials for their chemical and physical qualities before they are delivered to the factories.
- a. Materials tested in this section are: steel, copper, zinc, aluminum, electron-metal (sic), electrodes, resistance wires for electric conductors, special metals for refrigerators, and electrical thermostats. All metals are given physical, electrical, thermal, acoustic, magnetic and mechanical tests. Coal is tested for combustibility, and drugs and narcotics are tested at the chemodrug factory.
 - b. Some of the devices used in testing are:
 - 1) Electric: voltmeter, ammeter, and Iceland spar (double refraction limestone) Italian measuring bridge, ohmmeter, high-voltage (up to 1,200,000 volts) (sic).
 - 2) Thermal: incubation furnace, oil bath (lighted), air bath, overheating, and temper (sic, "prehrivani a kalitelnost").
 - 3) Acoustic: conductivity of sound in sound chimney.
 - 4) Magnetic: for testing permeability and retentivity of magnetic materials.
 - 5) Physical and mechanical: not described.
4. Production at the various plants is as follows:
- a. At the Karlin plant:
 - 1) Machine Section: cranes, engines, boilers, mills, and turbines.
 - 2) Electrical Section: electric engines.
 - 3) Automotive Section: Praga RN (3 ton), Praga Diesel (10 ton), trucks and trailers (10 ton), are manufactured for the Czechoslovak Army. The Minor, a passenger car, is manufactured here.
 - b. At Liben, boats, steamers, towboats for use in Czechoslovakia and abroad, and garbage scows for Russia are made. In the spring of 1949, a new dry dock was equipped.
 - c. At Vysocany are located the section for material-fashioning (sic, addeleni obrabeci), and the chemical laboratories. Steam engine crankshafts, axle bearings, and cogwheels are manufactured for the shipbuilding industry.
 - d. At Strasnice the factory, formerly known as Chvala, manufactures central heating units, boilers, and cranes.
 - e. The factory at Blatna manufactures railway cars.
 - f. The factory at Slany manufactures railway cars and locomotives.
 - g. CKD textile factories in Northern Bohemia manufacture clothing for the workers at CKD.
5. Rare metals, zinc, and copper alloys for axle bearings and ball bearings are in short supply at the present time.

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6. Some important deliveries made by CKD in 1949 were:
 - a. To Olchovatka near Kiev in Russia: Sugar refinery and electrical works, delivered in June 1949.
 - b. To Krompachy (R49/E06) and Nitra (P49/T62): An electrical works with water turbines.
 - c. The Ruda Nikola, mines in Poland received special mills for coal crushing. CKD plans to manufacture a large number of mills for these mines.
 - d. To Pearl, Bombay, of India, were sent electrical works and crushing mills.
 - e. CKD manufactured a cyclotron, but the research institute to which it was delivered is not known.
7. Approximately 15 to 20 percent of the employees of CKD are convinced Communists. Members attend a Communist school twice a week after working hours, and selected workers are sent to a monthly school in the Prague-Vinohrady area.
8. The workers' militia of the Karlin factory consists of approximately 150 members, who wear blue working clothes, like uniforms, with black berets, and red ribbons on their left forearms. These men are equipped with rifles and hand grenades and are transported in trucks.

Encls: 1 sketch of CKD's factory at Karlin

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